

Chapter 9 Cellular Respiration

Section Review 9-2

Reviewing Key Concepts

Short Answer On the lines provided, answer the following questions.

1. How is pyruvic acid used in the Krebs cycle?

2. How are glycolysis and cellular respiration related?

3. What role do high-energy electrons play in the electron transport chain?

4. What are the reactants in cellular respiration? What are the products?

Reviewing Key Skills

Identification On the lines provided, identify which phrase describes the following processes: cellular respiration or photosynthesis.

- _____ 5. reactants are CO_2 and H_2O
- _____ 6. occurs only in plants, algae, and some microorganisms
- _____ 7. $6\text{O}_2 + \text{C}_6\text{H}_{12}\text{O}_6 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O} + \text{Energy}$
- _____ 8. uses oxygen to release energy from food

9. **Comparing** How many ATP molecules are produced in glycolysis? In cellular respiration?

10. **Applying Concepts** Would a baseball player running to first base and a cross-country skier use the same or different pathways to release energy? Explain your answer.
